

Multispecies estimation Using body scaling relationships to advance DEB parameter estimation

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ABSTRACT

The Dynamic Energy Budget (DEB) theory describes the organisms through its processes such as feeding, growth, maturation and reproduction in the context of varying environmental conditions (food and/or temperature) [1]. Differences between species are reflected in differences in their parameter value set. In this work we show the estimation of DEB parameters [2] is enhanced by using intra-specific body scaling relationships that link the parameters of different species. These scaling relationships allow for the estimation of the parameter set of the target species even in the case when full data sets are not available since in a multispecies procedure the data sets of every species used will contribute to the estimation. We will present an example of multispecies estimation with 3 species.

References

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